

The critical issue is: the logic in natural languages and sciences is much more complicated than the logic (or logics) in programming languages, or any other existing logics. Large language models are incomplete and inconsistent.

So, current logic studies, including relevance logic or any other substructural/paraconsistent logics, are inadequate.

There are countless types of mathematical logic and philosophical logic, but none of them could really judge the true/false in natural languages and sciences.

The following analyses could provide the foundation for a better scientific logic.

1) Most of numbers are not computable, or even not definable. How many natural laws are critical on these incomputable or indefinable numbers? This question cannot be answered by humans' sciences and verified by scientific experiments.

It is NOT a trivial issue. So, humans will never have the Theory of Everything. The logic in Prof. Gerard't Hooft's article Free Will in the Theory of Everything is wrong.

2) Actually, humans' sciences are NOT consistent and complete. Even if some pompous physicists still think the problems be trivial in physics, these problems would be amplified enormously in life sciences, and especially in intelligence sciences.

3) Thus, physical sciences, life sciences, intelligence sciences need very different reference systems. Humans should not stop at the reference system theory of general relativity.

4) These different reference systems need very different logic frameworks. There are paradigm shifts across these different reference systems related to logic frameworks. So, people should be specific about what exactly these paradigm shifts are in various situations.

Freeman Dyson
Gerard't Hooft

Gerard't Hooft
Gerard't Hooft

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Ich will dem Schicksal in den Rachen greifen
Ich will dem Schicksal in den Rachen greifen?

UK Human Brain project BRAIN Initiative mirror neuron AGI

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Human Brain project BRAIN Initiative mirror neuron AGI

- 1) mirror neuron AGI
- 2) OpenAI AGI
- 3) AGI
- 4) AGI
- 5) AGI

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Gerard't Hooft 。。 Free Will in the Theory of Everything 。。 God's laptop 。。

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.....the selfish gene.....the selfish gene.....

.....the selfish gene.....Richard Dawkins.....Alfred Wallace.....
.....Charles Darwin.....

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.....paradigm shift.....AGI.....

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.....mirror neuron.....

.....2020 .. 2024.....

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.....Jesuit reduction.....

.....“If I gave an AI ... every single test that you can possibly imagine, you make that list of tests and put it in front of the computer science industry, and I'm guessing in five years time, we'll do well on every single one,”

億萬美元的官司，就是 billion-dollar case

指一個在法律上沒有明確定義的問題，導致司法判決的不一致。 inconsistency 在法律上沒有明確定義的問題，導致司法判決的不一致。 O.J.Simpson 案就是一個例子。

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1990 年，一個研究組發現，人類的大腦和計算機一樣，可以執行通用的計算任務。這項發現被稱為“通用計算假說”。 Universal Computing Hypothesis

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指一個在法律上沒有明確定義的問題，導致司法判決的不一致。 Human Brain project 和 BRAIN Initiative 都是研究人類大腦結構和功能的項目。

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“泛函分析”是数学分析的一个分支，它研究的是函数空间的性质和线性算子的性质。

Universal Approximation Theorem Word-embedded vector space Hibert space

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